

United States Patent [19]

Hirata et al.

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[54] WORD PROCESSOR WITH ATTRIBUTE FUNCTIONS

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[56] References Cited

U.S. PATENT DOCUMENTS

4,491,933 1/1985 Ursin et al. 364/900

4,495,490 1/1985 Hopper et al. 340/709
4,686,649 8/1987 Rush et al. 364/900
4,742,485 5/1988 Carlson et al. 364/900
4,806,916 2/1989 Raskin et al. 340/709

FOREIGN PATENT DOCUMENTS

0165442 5/1985 European Pat. Off. .

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[57] ABSTRACT

A word processor having attribute functions such as underline, boldface, superscript, etc., can produce or cancel those attribute effects on the display device by simple operations. The word processor with an attribute mode can either produce the attribute effect which is selected by an attribute key in response to the rightward or downward movement of the cursor, or cancel it in response to the leftward or upward movement. The word processor with an attribute cancel mode in addition to an attribute mode can set a mode among a non-attribute mode, an attribute mode and an attribute cancel mode independent of the direction of the cursor's movement.

15 Claims, 17 Drawing Sheets

